Performance Data Sheet

AWF5524EXG

General Information

Model	AWF5524EXG	**Refrigerant**	R-22
Test Condition	ARI	**Performance Test Voltage**	460V 3~ 60HZ
Return Gas	18.3°C (65°F) RETURN GAS	**Motor Type**	3PH

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	90	100	110	120	130	140
-15	Btu/h	5870	4830					
	Watts	964	920					
	Amps	1.76	1.73					
	Lb/h	75.3	65.0					
-10	Btu/h	7630	6500	5420				
	Watts	1060	1030	1000				
	Amps	1.87	1.85	1.83				
	Lb/h	97.5	86.7	75.9				
-5	Btu/h	9480	8260	7080	5940			
	Watts	1150	1130	1120	1110			
	Amps	1.97	1.96	1.95	1.95			
	Lb/h	121	109	97.9	86.3			
0	Btu/h	11400	10100	8840	7590	6370		
	Watts	1230	1230	1230	1230	1240		
	Amps	2.06	2.06	2.07	2.08	2.08		
	Lb/h	145	133	121	109	95.8		
5	Btu/h	13500	12100	10700	9340	8000		
	Watts	1310	1320	1330	1350	1370		
	Amps	2.14	2.16	2.18	2.20	2.22		
	Lb/h	170	158	145	133	119		
10	Btu/h	15800	14200	12700	11200	9750	8320	6900
	Watts	1370	1400	1430	1460	1490	1510	1520
	Amps	2.21	2.24	2.28	2.32	2.35	2.38	2.41
	Lb/h	197	185	171	158	144	128	112
15	Btu/h	18200	16500	14900	13200	11600	10100	8510
	Watts	1430	1470	1520	1570	1620	1650	1670
	Amps	2.27	2.32	2.37	2.43	2.48	2.53	2.57
	Lb/h	226	213	199	185	170	154	137
20	Btu/h	20900	19000	17200	15400	13700	12000	10300
	Watts	1480	1540	1600	1670	1730	1780	1820
	Amps	2.31	2.38	2.46	2.53	2.60	2.66	2.72
	Lb/h	257	243	229	214	198	182	164

25	Btu/h	23700	21700	19700	17800	15900	14000	12200
	Watts	1510	1590	1680	1760	1840	1910	1960
	Amps	2.35	2.44	2.53	2.62	2.71	2.80	2.88
	Lb/h	290	276	261	245	229	212	193
30	Btu/h	26800	24600	22500	20400	18300	16300	14200
	Watts	1540	1640	1750	1850	1940	2030	2100
	Amps	2.37	2.49	2.60	2.71	2.82	2.93	3.03
	Lb/h	326	311	296	279	262	244	225
35	Btu/h	30100	27800	25500	23200	21000	18800	16500
	Watts	1560	1680	1800	1920	2040	2140	2230
	Amps	2.39	2.52	2.66	2.79	2.93	3.06	3.18
	Lb/h	365	349	333	316	298	279	259
40	Btu/h	33700	31200	28800	26300	23900	21400	19000
	Watts	1560	1700	1850	1990	2130	2250	2350
	Amps	2.39	2.55	2.71	2.87	3.03	3.18	3.33
	Lb/h	406	390	373	356	337	317	296
45	Btu/h	37700	35000	32300	29600	27000	24400	21800
	Watts	1550	1720	1880	2050	2210	2350	2470
	Amps	2.38	2.57	2.75	2.94	3.12	3.30	3.47
	Lb/h	451	434	416	398	379	358	337
50	Btu/h	41900	39000	36100	33300	30400	27600	24800
	Watts	1530	1720	1910	2100	2280	2440	2590
	Amps	2.36	2.58	2.79	3.00	3.21	3.42	3.61
	Lb/h	499	481	463	444	424	403	380
55	Btu/h	46500	43400	40300	37200	34200	31100	28100
	Watts	1490	1710	1920	2130	2340	2520	2690
	Amps	2.33	2.57	2.82	3.06	3.29	3.53	3.75
	Lb/h	551	533	514	494	473	451	428

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	2.376709E+04	2.150021E+03	2.377326E+00	2.597472E+02
C2	5.675328E+02	-1.212794E+01	-5.750221E-03	5.473033E+00
C3	-1.767869E+02	-2.739063E+01	-1.039322E-02	-1.928724E+00
C4	4.243119E+00	-3.159394E-01	-4.377181E-04	2.804090E-02
C5	-1.898244E+00	3.974580E-01	2.910905E-04	-2.554396E-03
C6	3.240925E-01	2.670821E-01	1.088123E-04	9.043557E-03
C7	2.791540E-02	-7.991822E-04	-3.387432E-08	3.113642E-04
C8	-1.953820E-02	2.003653E-03	2.777885E-06	-1.545761E-05
C9	-1.585864E-03	-6.238214E-04	-9.319174E-08	-4.746453E-05
C10	-4.928692E-04	-8.524082E-04	-3.551181E-07	-3.627785E-05

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature

Performance Data Sheet

AWF5524EXG

General Information

Model	AWF5524EXG	**Refrigerant**	R-22
Test Condition	ARI	**Performance Test Voltage**	380V 3~ 50HZ
Return Gas	18.3°C (65°F) RETURN GAS	**Motor Type**	3PH

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	**90**	**100**	**110**	**120**	**130**	**140**
-15	Btu/h	4810	3960					
	Watts	804	767					
	Amps	1.70	1.67					
	Lb/h	61.7	53.3					
-10	Btu/h	6250	5330	4440				
	Watts	884	858	838				
	Amps	1.81	1.79	1.78				
	Lb/h	79.9	71.1	62.2				
-5	Btu/h	7770	6770	5800	4870			
	Watts	959	943	934	927			
	Amps	1.91	1.90	1.90	1.89			
	Lb/h	98.8	89.6	80.3	70.7			
0	Btu/h	9380	8300	7240	6220	5220		
	Watts	1030	1020	1030	1030	1030		
	Amps	2.00	2.00	2.01	2.02	2.02		
	Lb/h	119	109	99.2	89.1	78.6		
5	Btu/h	11100	9920	8780	7660	6560		
	Watts	1090	1100	1110	1130	1140		
	Amps	2.07	2.09	2.11	2.13	2.15		
	Lb/h	140	129	119	109	97.5		
10	Btu/h	12900	11700	10400	9200	8000	6820	5660
	Watts	1140	1170	1190	1220	1250	1260	1270
	Amps	2.14	2.17	2.21	2.25	2.28	2.31	2.33
	Lb/h	162	151	141	129	118	105	92.0
15	Btu/h	14900	13600	12200	10900	9540	8250	6980
	Watts	1190	1230	1270	1310	1350	1380	1390
	Amps	2.20	2.25	2.30	2.35	2.40	2.45	2.49
	Lb/h	186	175	163	152	139	126	112
20	Btu/h	17100	15600	14100	12700	11200	9810	8410
	Watts	1230	1280	1340	1390	1440	1490	1510
	Amps	2.24	2.31	2.38	2.45	2.52	2.58	2.64
	Lb/h	211	199	188	176	163	149	134

25	Btu/h	19400	17800	16200	14600	13000	11500	9970
	Watts	1260	1330	1400	1470	1540	1590	1630
	Amps	2.28	2.37	2.45	2.54	2.63	2.71	2.79
	Lb/h	238	226	214	201	188	174	158
30	Btu/h	21900	20200	18400	16700	15000	13300	11700
	Watts	1280	1370	1460	1540	1620	1690	1750
	Amps	2.30	2.41	2.52	2.63	2.74	2.84	2.94
	Lb/h	267	255	242	229	215	200	184
35	Btu/h	24700	22800	20900	19000	17200	15400	13600
	Watts	1300	1400	1500	1610	1700	1790	1860
	Amps	2.32	2.45	2.58	2.71	2.84	2.97	3.08
	Lb/h	299	286	273	259	244	229	212
40	Btu/h	27700	25600	23600	21600	19600	17600	15600
	Watts	1300	1420	1540	1660	1770	1880	1960
	Amps	2.32	2.47	2.63	2.78	2.94	3.08	3.23
	Lb/h	333	320	306	291	276	260	243
45	Btu/h	30900	28700	26500	24300	22100	20000	17900
	Watts	1290	1430	1570	1710	1840	1960	2060
	Amps	2.31	2.49	2.67	2.85	3.03	3.20	3.37
	Lb/h	370	356	341	326	311	294	276
50	Btu/h	34400	32000	29600	27300	25000	22600	20300
	Watts	1270	1430	1590	1750	1900	2040	2160
	Amps	2.29	2.50	2.70	2.91	3.11	3.31	3.50
	Lb/h	409	395	380	364	348	330	312
55	Btu/h	38100	35600	33000	30500	28000	25500	23000
	Watts	1240	1420	1600	1780	1950	2110	2250
	Amps	2.26	2.50	2.73	2.96	3.19	3.42	3.64
	Lb/h	451	437	421	405	388	370	351

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	1.948122E+04	1.793209E+03	2.305286E+00	2.129104E+02
C2	4.651908E+02	-1.011522E+01	-5.575972E-03	4.486153E+00
C3	-1.449073E+02	-2.284495E+01	-1.007828E-02	-1.580942E+00
C4	3.477966E+00	-2.635069E-01	-4.244539E-04	2.298465E-02
C5	-1.555938E+00	3.314969E-01	2.822696E-04	-2.093795E-03
C6	2.656496E-01	2.227578E-01	1.055149E-04	7.412851E-03
C7	2.288148E-02	-6.665520E-04	-3.284782E-08	2.552200E-04
C8	-1.601492E-02	1.671132E-03	2.693706E-06	-1.267034E-05
C9	-1.299889E-03	-5.202933E-04	-9.036775E-08	-3.890587E-05
C10	-4.039912E-04	-7.109447E-04	-3.443569E-07	-2.973634E-05

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature